

XP-002232675

AN - 1996-350121 [35]

AP - JP19940333532 19941214

CPY - SHID-N

- TAKG

DC - A14 A60 D22 E32 G02

DR - 0610-S 1760-S

FS - CPI

IC - A01N25/10 ; A01N59/16 ; A01N59/20

MC - A04-A A04-A03 A04-B09 A04-F06B A08-M02 A10-B04 A10-E21 D09-A01 E35-A  
E35-B E35-C G02-A03B G02-A05G

M3 - [01] A547 A940 A960 C710 C730 M411 M417 M781 M903 M904 P200 Q130 Q332  
Q337 R043; R07373-U

- [02] A429 A940 A960 C710 C730 M411 M417 M781 M903 M904 P200 Q130 Q332  
Q337 R043; R06206-U

- [03] A430 C710 C810 M411 M417 M781 M903 M904 P200 Q130 Q332 Q337 R043;  
R06421-U

PA - (SHID-N) SHIDO KK

- (TAKG) TAKI CHEM CO LTD

PN - JP8165210 A 19960625 DW199635 A01N59/16 006pp

PR - JP19940333532 19941214

XA - C1996-110525

XIC - A01N-025/10 ; A01N-059/16 ; A01N-059/20

AB - J08165210 A process for producing antimicrobial agents comprises  
applying raw materials for polymerisation: (1) acrylic acid ester or  
methacrylic acid ester, and/or (2) di- or tri-acrylic acid ester or  
di- or tri-methacrylic acid ester and (3) a radical polymerisation  
material having a sulphonic acid to copolymerisation reaction. The  
reaction is carried out in an organic solvent to which is added an  
aqueous soln. of Ag, Cu or Zn ion.

- Also claimed is an antimicrobial agent produced by the process.

- USE - The antimicrobial agents immobilised on organic polymer  
particles can be used as additives to plastics or coating materials.

- ADVANTAGE - Since the acrylic polymers used as carrier have good  
compatibility, the agents can be applied to a variety of polymer  
bases. Have good dispersibility. Antimicrobial metals are slowly  
released from the carrier as they are dispersed homogeneously in it.  
The antimicrobial action is long lasting.

- (Dwg.0/0)

AW - METHACRYLIC]

AKW - METHACRYLIC]

CN - R07373-U R06206-U R06421-U

IW - PRODUCE ANTIMICROBIAL AGENT RADICAL POLYMERISE METHO POLYACRYLIC ACID  
ESTER COMPOUND ORGANIC SOLVENT CONTAIN AQUEOUS SOLUTION SILVER COPPER  
ZINC ION

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NC - 001

OPD - 1994-12-14

ORD - 1996-06-25

- (TAKG ) TAKI CHEM CO LTD

TI - Prodn. of antimicrobial agents - involves radically polymerising  
(meth)acrylic] acid ester cpds. in organic solvent contg. aq. soln. of  
silver, copper or zinc ions

- A01 - [001] 018 ; H0022 H0011 ; G0340-R G0339 G0260 G0022 D01 D12 D10 D26  
D51 D53 D58 D63 F41 F89 ; G0806 G0022 D01 D51 D53 D11 D10 D12 D58  
D61-R D63 F90 F41 F62 Na 1A ; L9999 L2528 L2506 ; L9999 L2664 L2506 ;  
L9999 L2391 ; L9999 L2379-R ; M9999 M2379-R ; S9999 S1456-R ;  
S9999 S1014-R ; S9999 S1627 S1605 ; P0088 ;
- [002] 018 ; H0022 H0011 ; G0384-R G0339 G0260 G0022 D01 D12 D10 D26  
D51 D53 D58 D63 F41 F89 ; G0806 G0022 D01 D51 D53 D11 D10 D12 D58  
D61-R D63 F90 F41 F62 Na 1A ; L9999 L2528 L2506 ; L9999 L2664 L2506 ;  
L9999 L2391 ; L9999 L2379-R ; M9999 M2379-R ; S9999 S1456-R ;  
S9999 S1014-R ; S9999 S1627 S1605 ; P0088 ;
- [003] 018 ; H0022 H0011 ; R00479 G0384 G0339 G0260 G0022 D01 D11 D10  
D12 D26 D51 D53 D58 D63 D85 F41 F89 ; G0806 G0022 D01 D51 D53 D11 D10  
D12 D58 D61-R D63 F90 F41 F62 Na 1A ; L9999 L2528 L2506 ; L9999  
L2664 L2506 ; L9999 L2391 ; L9999 L2379-R ; M9999 M2379-R ; S9999  
S1456-R ; S9999 S1014-R ; S9999 S1627 S1605 ; P0088 ;
- [004] 018 ; H0022 H0011 ; G0873-R G0817 D01 D51 D54 D57 D63 ; G0806  
G0022 D01 D51 D53 D11 D10 D12 D58 D61-R D63 F90 F41 F62 Na 1A ; L9999  
L2528 L2506 ; L9999 L2664 L2506 ; L9999 L2391 ; L9999 L2379-R ;  
M9999 M2379-R ; S9999 S1456-R ; S9999 S1014-R ; S9999 S1627 S1605 ;
- [005] 018 ; H0022 H0011 ; R01595 G0873 G0817 D01 D11 D10 D12 D26 D51  
D54 D57 D58 D63 D92 F34 F41 F90 ; G0806 G0022 D01 D51 D53 D11 D10 D12  
D58 D61-R D63 F90 F41 F62 Na 1A ; L9999 L2528 L2506 ; L9999 L2664  
L2506 ; L9999 L2391 ; L9999 L2379-R ; M9999 M2379-R ; S9999  
S1456-R ; S9999 S1014-R ; S9999 S1627 S1605 ; P0088 ;
- [006] 018 ; H0022 H0011 ; G0975-R D01 D51 D55 D11 D10 D26 D56 D57  
D58 D59 D63 F91 F41 ; G0806 G0022 D01 D51 D53 D11 D10 D12 D58 D61-R  
D63 F90 F41 F62 Na 1A ; L9999 L2528 L2506 ; L9999 L2664 L2506 ;  
L9999 L2391 ; L9999 L2379-R ; M9999 M2379-R ; S9999 S1456-R ;  
S9999 S1014-R ; S9999 S1627 S1605 ;
- [007] 018 ; G0340-R G0339 G0260 G0022 D01 D12 D10 D26 D51 D53 D58 D63  
F41 F89 ; G0384-R G0339 G0260 G0022 D01 D12 D10 D26 D51 D53 D58 D63  
F41 F89 ; R00479 G0384 G0339 G0260 G0022 D01 D11 D10 D12 D26 D51 D53  
D58 D63 D85 F41 F89 ; G0873-R G0817 D01 D51 D54 D57 D63 ; R01595  
G0873 G0817 D01 D11 D10 D12 D26 D51 D54 D57 D58 D63 D92 F34 F41 F90 ;  
G0975-R D01 D51 D55 D11 D10 D26 D56 D57 D58 D59 D63 F91 F41 ; G0806  
G0022 D01 D51 D53 D11 D10 D12 D58 D61-R D63 F90 F41 F62 Na 1A ; L9999  
L2528 L2506 ; L9999 L2664 L2506 ; L9999 L2391 ; L9999 L2379-R ;  
M9999 M2379-R ; S9999 S1456-R ; S9999 S1014-R ; S9999 S1627 S1605 ;  
H0033 H0011 ; P0088 ;
- [008] 018 ; B9999 B3485-R B3372 ; Q9999 Q7125 Q7114 ; B9999 B5209  
B5185 B4740 ; N9999 N6804-R N6655 ; N9999 N6882 N6655 ; N9999  
N6780-R N6655 ; K9949 ; B9999 B3418-R B3372 ; Q9999 Q7250 ; Q9999  
Q9369 ; ND01 ; ND04 ;
- [009] 018 ; D00 Ag 1B Tr N- 5A O- 6A ; H0226 ;
- [010] 018 ; Cu 1B Tr Ag Zn 2B ; H0157 ;
- [011] 018 ; R00610 D01 D19 D18 D32 D50 D63 D76 D93 F42 ; C999 C088-R  
C000 ; C999 C293 ;

B9999 B3418-R B3372 ; B9999 B3430 B3372 ; A999 A759 ;  
- [013] 018 ; G3430 D01 D02 D11 D10 D19 D18 D31 D50 D76 D88 ; R01135  
D01 D11 D10 D50 D63 D84 F41 F89 ; R00204 D01 D11 D10 D50 D84 F34 ;  
R00306 D01 D02 D19 D18 D31 D50 D76 D86 ; R00904 D01 D02 D11 D10 D50  
D86 ; R00437 G1525 D01 D11 D10 D50 D84 F23 ; R00272 G1525 D01 D11  
D10 D50 D83 F23 ; R00862 D01 D02 D11 D10 D19 D18 D31 D50 D76 D87 ;  
R00836 D01 D11 D10 D50 D86 F23 ; A999 A475 ;

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